

TEST REPORT

Application No.: BTEK241108034A01-T03

Applicant: Shenzhen Union Aurora Technology Co., Ltd.

Address of Applicant: 1403A, Building 1, COFCO Innovation Park, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen

Manufacturer: Shenzhen Union Aurora Technology Co., Ltd.

Address of Manufacturer: 1403A, Building 1, COFCO Innovation Park, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen

Equipment Under Test (EUT):

EUT Name: Smart Projector

Test Model.: N1 pro

Adding Model(s): P601,P602,P603,P605,P606,P608,P609,N1,N1 Ultra ,N1Se,N1 Mini, N2,N2Pro,N2 Ultra,N2Se,N2 Mini,N3,N3Pro,N3 Ultra,N3Se,N3Mini, N5,N5Pro,N5 Ultra,N5Se,N5Mini,N6,N6Pro,N6 Ultra,N6Se,N6Mini, N8,N8Pro,N8 Ultra,N8Se,N8Mini N9,N9Pro,N9 Ultra,N9Se,N9Mini, M1,M1Pro,M1 Ultra,M1Se,M1 Mini,M2,M2Pro,M2 Ultra,M2Se,M2 Mini, M3,M3Pro,M3 Ultra,M3Se,M3 Mini,M5,M5Pro,M5 Ultra,M5Se,M5 Mini, M6,M6Pro,M6 Ultra,M6Se,M6 Mini,M8,M8Pro,M8 Ultra,M8Se,M8 Mini, M9,M9Pro,M9 Ultra,M9Se,M9 Mini,P1,P1Pro,P1 Ultra,P1Se,P1 Mini, P2,P2Pro,P2 Ultra,P2Se,P2 Mini,P3,P3Pro,P3 Ultra,P3Se,P3Mini, P5,P5Pro,P5 Ultra,P5Se,P5Mini,P6,P6Pro,P6 Ultra,P6Se,P6Mini, P8,P8Pro,P8 Ultra,P8Se,P8Mini,P9,P9Pro,P9 Ultra,P9Se,P9Mini, X1,X1Xro,X1 Ultra,X1Se,X1 Mini,X2,X2Xro,X2 Ultra,X2Se,X2 Mini, X3,X3Xro,X3 Ultra,X3Se,X3Mini,X5,X5Xro,X5 Ultra,X5Se,X5Mini, X6,X6Xro,X6 Ultra,X6Se,X6Mini,X8,X8Xro,X8 Ultra,X8Se,X8Mini, X9,X9Xro,X9 Ultra,X9Se,X9Mini,U1,U1Uro,U1 Ultra,U1Se,U1 Mini, U2,U2Uro,U2 Ultra,U2Se,U2 Mini,U3,U3Uro,U3 Ultra,U3Se,U3Mini, U5,U5Uro,U5 Ultra,U5Se,U5Mini,U6,U6Uro,U6 Ultra,U6Se,U6Mini, U8,U8Uro,U8 Ultra,U8Se,U8Mini,U9,U9Uro,U9 Ultra,U9Se,U9Mini, V1,V1Vro,V1 Vltra,V1Se,V1 Mini,V2,V2Vro,V2 Vltra,V2Se,V2 Mini, V3,V3Vro,V3 Vltra,V3Se,V3Mini,V5,V5Vro,V5 Vltra,V5Se,V5Mini, V6,V6Vro,V6 Vltra,V6Se,V6Mini,V8,V8Vro,V8 Vltra,V8Se,V8Mini, V9,V9Vro,V9 Vltra,V9Se,V9Mini,M6,M6S,M6 Pro,M6 Se,M6 Ultra, M6 Mini P200,K200, D200, E200, M200,V200,X200,MX1,MX1 Pro,M1S, N1S,M1S Pro,MX2, MX2 Pro,M2S, N2S,M2SPro,MX3, MX3 Pro, M3S,N3S,M3S Pro, MX4,MX4 Pro,M4S, N4S,M4S Pro, MX5,MX5 Pro,M5S,N5S,M5S Pro,MX6, MX6 Pro,M6S,N6S,M6S Pro, MX7,MX7 Pro,M7S, N7S,M7S Pro,MX8,MX8 Pro,M8S,N8S,M8S Pro, MX9,MX9 Pro,M9S,N9S,M9S Pro

Trade Mark: /

FCC ID: 2BOJD-N1PRO

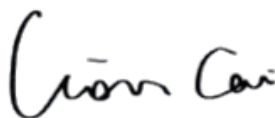
Standard(s) : 47 CFR Part 2 Subpart J Section 2.1091
447498 D01 General RF Exposure Guidance v06



Date of Receipt Sample(s): 2024-12-09
Date of Test: 2024-12-10 to 2025-03-11
Date of Issue: 2025-03-12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Lion Cai/ Approved & Authorized
EMC Laboratory Manager



Revision Record			
Version	Issue Date	Revisions	Remarks
V0	2025-03-12	Initial	Valid

Authorized for issue by			
		Karl Liu / File Editor	
		June Li/Reviewer	

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



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3 General Information

3.1 Details of E.U.T.

Power supply:	AC/DC ADAPTERMODEL:MC80-190530Y INPUT:100-240V~50/60Hz 2.0A OUTPUT:19V=6A			
BLE				
Frequency Range:	2402MHz to 2480MHz			
Bluetooth Version:	V5.1 BLE			
Modulation Type:	GFSK			
Number of Channels:	40			
Antenna Type:	FPC Antenna			
Antenna Gain:	2.26 dBi			
BT				
Frequency Range:	2402MHz to 2480MHz			
Bluetooth Version:	V5.1 classic			
Modulation Type:	GFSK, $\pi/4$ DQPSK,8DPSK			
Number of Channels:	79			
Channel Spacing:	1MHz			
Antenna Type:	FPC Antenna			
Antenna Gain:	2.26 dBi			
2.4G WIFI				
Support Standards:	802.11b, 802.11g, 802.11n-HT20,802.11n-HT40			
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 802.11b/g/n(HT40)			
Type of Modulation:	802.11b: DSSS; 802.11g/n: OFDM			
Quantity of Channels	11 for 802.11b/g/n(HT20/HT40)			
Channel Separation:	5MHz			
Type of Antenna:	FPC Antenna			
Antenna Gain:	ANT1:2.64dBi ANT2:4.33dBi			
5G WIFI				
Support Standards:	802.11a, 802.11n(HT20) ,802.11n-HT40, 802.11ac-VHT20, 802.11ac-VHT40,802.11ac-VHT80			
Operation Frequency	U-NII-1:5180-5240MHz U-NII-2A: 5260-5320MHz U-NII-2C: 5500-5700MHz U-NII-3: 5745-5825MHz			
Modulation Type:	OFDM			
Channel Spacing:	802.11a/n(HT20/HT40)/ac(VHT20/VHT40/VHT80): 20MHz/40MHz/80MHz			
DFS Function:	Slave			
TPC Function:	No Support TPC function			
Antenna Type:	FPC Antenna			
Antenna Gain:	U-NII-1 ANT1:2.37dBi ANT2:2.09dBi	V-NII-2A ANT1:2.74dBi ANT2:1.99dBi	U-NII-2C ANT1:3.51dBi ANT2:3.36dBi	V-NII-3 ANT1:3.62dBi ANT2:2.08dB
Model(s) Difference	☐ Single Model.			



Statement	☒ Multi-Models: N1 pro, P601, P602, P603, P605, P606, P608, P609, N1, N1 Ultra, N1Se, N1 Mini, N2, N2Pro, N2 Ultra, N2Se, N2 Mini, N3, N3Pro, N3 Ultra, N3Se, N3Mini, N5, N5Pro, N5 Ultra, N5Se, N5Mini, N6, N6Pro, N6 Ultra, N6Se, N6Mini, N8, N8Pro, N8 Ultra, N8Se, N8Mini, N9, N9Pro, N9 Ultra, N9Se, N9Mini, M1, M1Pro, M1 Ultra, M1Se, M1 Mini, M2, M2Pro, M2 Ultra, M2Se, M2 Mini, M3, M3Pro, M3 Ultra, M3Se, M3 Mini, M5, M5Pro, M5 Ultra, M5Se, M5 Mini, M6, M6Pro, M6 Ultra, M6Se, M6 Mini, M8, M8Pro, M8 Ultra, M8Se, M8 Mini, M9, M9Pro, M9 Ultra, M9Se, M9 Mini, P1, P1Pro, P1 Ultra, P1Se, P1 Mini, P2, P2Pro, P2 Ultra, P2Se, P2 Mini, P3, P3Pro, P3 Ultra, P3Se, P3Mini, P5, P5Pro, P5 Ultra, P5Se, P5Mini, P6, P6Pro, P6 Ultra, P6Se, P6Mini, P8, P8Pro, P8 Ultra, P8Se, P8Mini, P9, P9Pro, P9 Ultra, P9Se, P9Mini, X1, X1Xro, X1 Ultra, X1Se, X1 Mini, X2, X2Xro, X2 Ultra, X2Se, X2 Mini, X3, X3Xro, X3 Ultra, X3Se, X3Mini, X5, X5Xro, X5 Ultra, X5Se, X5Mini, X6, X6Xro, X6 Ultra, X6Se, X6Mini, X8, X8Xro, X8 Ultra, X8Se, X8Mini, X9, X9Xro, X9 Ultra, X9Se, X9Mini, U1, U1Uro, U1 Ultra, U1Se, U1 Mini, U2, U2Uro, U2 Ultra, U2Se, U2 Mini, U3, U3Uro, U3 Ultra, U3Se, U3Mini, U5, U5Uro, U5 Ultra, U5Se, U5Mini, U6, U6Uro, U6 Ultra, U6Se, U6Mini, U8, U8Uro, U8 Ultra, U8Se, U8Mini, U9, U9Uro, U9 Ultra, U9Se, U9Mini, V1, V1Vro, V1 Vltra, V1Se, V1 Mini, V2, V2Vro, V2 Vltra, V2Se, V2 Mini, V3, V3Vro, V3 Vltra, V3Se, V3Mini, V5, V5Vro, V5 Vltra, V5Se, V5Mini, V6, V6Vro, V6 Vltra, V6Se, V6Mini, V8, V8Vro, V8 Vltra, V8Se, V8Mini, V9, V9Vro, V9 Vltra, V9Se, V9Mini, M6, M6S, M6 Pro, M6 Se, M6 Ultra, M6 Mini P200, K200, D200, E200, M200, V200, X200, MX1, MX1 Pro, M1S, N1S, M1S Pro, MX2, MX2 Pro, M2S, N2S, M2SPro, MX3, MX3 Pro, M3S, N3S, M3S Pro, MX4, MX4 Pro, M4S, N4S, M4S Pro, MX5, MX5 Pro, M5S, N5S, M5S Pro, MX6, MX6 Pro, M6S, N6S, M6S Pro, MX7, MX7 Pro, M7S, N7S, M7S Pro, MX8, MX8 Pro, M8S, N8S, M8S Pro, MX9, MX9 Pro, M9S, N9S, M9S Pro Only the model N1 pro was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No
Sample No.:	BTEK241108034A01E-1

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/

3.3 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.,

A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518103

Tel: 0755-2334 4200

Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

3.4 Deviation from Standards

None



3.5 Abnormalities from Standard Conditions

None

4 Test Requirement

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², **P_{out}** = output power to antenna in mW;

G = gain of antenna in linear scale, **P_i** = 3.1416;

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1 Assessment Result

☒ Passed ☐ Not Applicable

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2440	BLE	0.98	1	0.0003	1.0000	Pass
2441	BT	9.64	10	0.0026	1.0000	Pass
2437	802.11b	19.05	19.5	0.0234	1.0000	Pass
5200	802.11a	14.54	15	0.0083	1.0000	Pass
5260	802.11a	14.55	15	0.0083	1.0000	Pass
5500	802.11a	14.54	15	0.0083	1.0000	Pass
5825	802.11a	14.81	15	0.0083	1.0000	Pass



Note: 1.The exposure evaluation safety distance is 20cm.
2.Only show the worst case in the test report.

- End of the Report -

